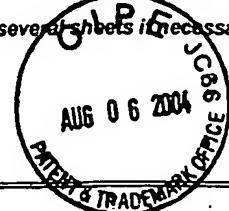


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## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE
<i>JL</i>	AA	5,407,808	4/18/95	Halling et al.	435	34	12/20/93
	AB	5,451,513	9/19/95	Maliga et al.	435	172.3	8/25/93
	AC	5,530,191	6/25/96	Maliga et al.	800	205	3/24/94
	AD	5,545,817	8/13/96	McBride et al.	800	205	3/11/94
	AE	5,576,198	11/19/96	McBride et al.	435	91.3	12/14/93
	AF	5,693,507	12/2/97	Daniell et al.	435	172.3	6/20/94
	AG	5,767,373	6/16/98	Ward et al.	800	205	6/6/95
	AH	5,939,602	8/17/99	Volrath et al	800	300	2/28/97
	AI	6,023,012	8/8/00	Volrath et al.			3/30/98
	AJ	4,940,835	7/10/90	Shah et al.	800	205	7/7/86
<i>JL</i>	AK	4,975,374	12/4/90	Goodman et al.	435	172.3	2/4/87
	AL	5,013,659	5/7/91	Bedbrook et al.	435	172.3	3/4/88

## FOREIGN PATENT DOCUMENTS

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	AM	0 332 104	9/13/89	EP			<input type="checkbox"/> <input type="checkbox"/>
	AN	0 360 750	9/13/89	EP			<input type="checkbox"/> <input type="checkbox"/>
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	AQ	0 479 359	4/8/92	EP			<input type="checkbox"/> <input type="checkbox"/>

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AR	Al-Hazimi et al., J. Chem. Soc. Perkins Trans. 1. 265-276, 1987
AS	Allison et al. "Deletion of rpoB reveals a second distinct transcription system in plastids of higher plants" The EMBO Journal, 15:2802-2809 (1996)
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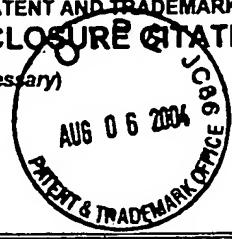
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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE
AA	5,539,092	7/23/96	Hasselkorn et al.	536	23.2	10/2/92
AB						
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	AA3	Asporen et al., "Secretion of a heat-stable fungal beta-glucanase from transgenic suspension-cultured barley cells," Molecular Breeding, 1: 91-99 (1995)
	AB3	Becerril et al., "Acifluorfen Effects on Intermediates of Chlorophyll Synthesis in Green Cucumber Cotyledon Tissues", Pesticide Biochemistry and Physiology, 35: 119-126 (1989).
	AC3	Bilang et al., "Containing excitement over transplastomic plants," Nature Biotechnology, 16: 333-334 (1998)
	AD3	Brenner et al., "Cloning of murine ferrochelatase", Proc. Natl. Acad. Sci. USA 88: 849-853 (1991).
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AB4	Dailey et al., "Expression of a Cloned Protoporphyrinogen Oxidase", The Journal of Biological Chemistry, 269(2):813-815 (1994)
AC4	Dailey T.A. et al., "Cloning, Sequence, and Expression of Mouse Protoporphyrinogen Oxidase", Archives of Biochemistry and Biophysics, 324(2): 379-384 (1995).
AD4	Dailey T.A. et al., "Human protoporphyrinogen oxidase: Expression, purification, and characterization of the cloned enzyme", Protein Science, 5: 98-105 (1996).
AE4	Daniell et al., "Containment of herbicide resistance through genetic engineering of the chloroplast genome," Nature Biotechnology, 16: 345-348 (1998)
AF4	Datta et al., "Transformation of the Tobacco Chloroplast Genome with the aroA Gene to Confer Glyphosate Tolerance," Supplement to Plant Physiology, 111(2): 790 (1996)
AG4	Derrick, Peter Michael, "An investigation into the mode of action of the herbicide M&B 39279", Dissertation Abstracts International, 56(10): 4283-B (1996).
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AI4	Duke et al., "Porphyric Pesticides Chemistry, Toxicology, and Pharmaceutical Applications", ACS Symposium Series 559, American Chemical Society, 1-318 (1994).
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AA5	Ems et al. "Transcription, splicing and editing of plastid RNAs in the nonphotosynthetic plant Epifagus virginiana" Plant Molecular Biology, 29: 721-733 (1995)
AB5	EMBL SEQUENCE DATABASE ACC. NO M22063 REL. 19 22-APR-1989
AC5	EMBL SEQUENCE DATABASE ACC. NO. T43573, REL. NO. 42, 3-FEB-1995
AD5	Falbel et al., "Characterization of a Family of Chlorophyll-Deficient Wheat (Triticum) and Barley (Hordeum vulgare) Mutants with Defects in the Magnesium-Insertion Step of Chlorophyll Biosynthesis", Plant Physiology (Rockville), 104: 639-648 (1994).
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AG5	Gollub et al., "Yeast Mutants Deficient in Heme Biosynthesis and a Heme Mutant Additionally Blocked in Cyclization of 2 3 Oxidosqualene", The Journal of Biological Chemistry, 252(9): 2846-2854 (1977).
AH5	Guo et al., "High-performance liquid chromatographic assays for protoporphyrinogen oxidase and ferrochelatase in human leukocytes", Journal of Chromatography Biomedical Applications, 566: 383-396 (1991).
AI5	Hallahan et al., Plant Physiol. 100: 1211-1216, 1992
AJ5	Hansson et al., "Bacillus subtilis Hem Y Is a Peripheral Membrane Protein Essential for Protoheme IX Synthesis Which Can Oxidize Coproporphyrinogen III and Protoporphyrinogen IX", Journal of Bacteriology, 176(19): 5962-5970 (1994).
AK5	Hansson et al., "Cloning and Characterization of the Bacillus subtilis hemEHY Gene Cluster, Which Encodes Protoheme IX Biosynthetic Enzymes", J. Bacteriol. 174(24) 8081-8093 (1992)
AL5	Heifetz et al., "Chemical regulation of nuclear and plastid transgenes in plants," Supplement to Plant Physiology, 114(3): 308 (1997)
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AN5	Ichinose et al., "Selection and Characterization of Protoporphyrinogen Oxidase Inhibiting Herbicide (S23142) Resistant Photomixotrophic Cultured Cells of Nicotiana tabacum", J. Plant Physiol., 146: 693-698 (1995)

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	AA6	Ihara et al., "Peroxidizing Phytotoxic Activity of 1,3,4-Thiadiazolidine-2-thiones and 1,2,4-Triazolidine-3,5-dithiones", Journal of Pesticide Science, 20: 41-47 (1995).
	AB6	Iida et al., "Isomerization and Peroxidizing Phytotoxicity of Thiadiazolidine-thione Compounds", Z. Naturforsch., 50(c): 186-192 (1995).
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	AD6	Jacobs et al., "Effect of Diphenyl Ether Herbicides on Oxidation of Protoporphyrinogen to Protoporphyrin in Organellar and Plasma Membrane Enriched Fractions of Barley", Plant Physiol. (Bethesda), 97: 197-203 (1991).
	AE6	Jacobs et al., "Oxidation of protoporphyrinogen to protoporphyrin, a step in chlorophyll and haem biosynthesis", Biochem J., 244: 219-224 (1987)
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	AH6	Jacobs J.M. et al., "Effects of Diphenyl Dther Herbicides on Porphyrin Accumulation by Cultured Hepatocytes", J. Biochem. Toxicology, 7(2): 87-95 (1992).
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	AL6	Jacobs N.J. et al., "Assay for Enzymatic Protoporphyrinogen Oxidation, a Late Step in Heme Synthesis", Enzyme (Basel), 28: 206-217 (1982).
	AM6	Jacobs N.J. et al., "CHARACTERISTICS OF PURIFIED PROTOPORPHYRINOGEN OXIDASE FROM BARLEY", Biochemical and Biophysical Research Communications, 161(2): 790-796 (1989).
	AN6	Jacobs N.J. et al., "MECHANISM OF PROTOPORPHYRIN IX ACCUMULATION IN PLANT CELLS TREATED WITH HERBICIDES INHIBITING PROTOPORPHYRINOGEN OXIDASE", Abstract PAP AM. CHEM. SOC., Abstract #113, 206 (1-2) (1993).

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	AA7	Jacobs N.J. et al., "Microbial Oxidation of Protoporphyrinogen an Intermediate in Heme and Chlorophyll Biosynthesis", Archives of Biochemistry and Biophysics, 197(2): 396-403 (1979).
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	AD7	Kataoka et al., "Isolation and Partial Characterization of Mutant Chlamydomas reinhardtii Resistant to Herbicide S-23142", J. Pesticide Sci., 15:499-451(1990)
	AE7	Klemm et al., "Protoporphyrinogen oxidation coupled to nitrite reduction with membranes from Desulfovibrio-gigas", FEMS Microbiology Letters, 61: 61-64 (1989).
	AF7	Klemm et al., "Purification and Properties of Protoporphyrinogen Oxidase from an Anaerobic Bacterium, Desulfovibrio-gigas", Journal of Bacteriology, 169(11): 5209-5215 (1987).
	AG7	Kohno et al., "Peroxidizing Phytotoxic Activity of Pyrazoles", Journal of Pesticide Science, 20: 137-143 (1995).
	AH7	Kolarov et al., "RAT LIVER PROTOPORPHYRINOGEN IX OXIDASE: SITE OF SYNTHESIS AND FACTOR INFLUENCING ITS ACTIVITY", Biochemical and Biophysical Research Communications, 116(2): 383-387 (1983).
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	AJ7	Koop et al. "Integration of foreign sequences into the tobacco plastome via polyethylene glycol-mediated protoplast transformation" Planta, 199: 193-201 (1996)
	AK7	Labbe-Bois R., "The Ferrochelatase from Saccharomyces-Cerevisiae. SEQUENCE, DISRUPTION, AND EXPRESSION OF ITS STRUCTURAL GENE HEM15*", The Journal of Biological Chemistry, 265(13): 7278-7283 (1990).
	AL7	Labbe et al., "Fluorometric assays for coproporphyrinogen oxidase and protoporphyrinogen oxidase", Analytical Biochemistry, 149: 248-260 (1985).
	AM7	Lee et al., "Cellular Localization of Protoporphyrinogen-Oxidizing Activities of Etiolated Barley (Hordeum vulgare L.) Leaves", Plant Physiol., 102:881-889 (1993)
	AN7	Lee et al., "PEROXIDASE INVOLVEMENT IN THE ACCUMULATION OF PROTOPORPHYRIN IX IN ACIFLUORFEN-METHYL-TREATED PLANT TISSUES", Plant Physiology (Rockville), 105(1 Suppl.): 125 (1994).

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AA8	Lee H.J. et al., "Protoporphyrinogen IX-Oxidizing Activities Involved in the Mode of Action of Peroxidizing Herbicides", Journal of Agricultural and Food Chemistry, 42(11): 2610-2618 (1994).
AB8	Li et al., "An h.p.l.c. assay for protoporphyrinogen oxidase activity in rat liver", Biochem. J., 243: 863-866 (1987).
AC8	Lyga et al., "Synthesis, Mechanism of Action, and QSAR of Herbicidal 3-Substituted-2-aryl-4,5,6,7-tetrahydroindazoles", Pesticide Science, 42: 29-36 (1994).
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AE8	Martasek et al., "Homozygous hereditary coproporphyria caused by an arginine to tryptophan substitution in coproporphyrinogen oxidase and common intragenic polymorphisms", Human Molecular Genetics, 3(3): 477-480 (1994).
AF8	Martasek et al., "Molecular cloning, sequencing, and functional expression of a cDNA encoding human coproporphyrinogen oxidase", Proceedings of the National Academy of Sciences of the United States of America, 91: 3024-3028 (1994).
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AH8	Matringe et al., "Localization within Chloroplasts of Protoporphyrinogen Oxidase, the Target Enzyme for Diphenylether-like Herbicides", The Journal of Biological Chemistry, 267(7):4646-4651 (1992)
AI8	Matringe et al., "Protoporphyrinogen oxidase as a molecular target for diphenyl ether herbicides", Biochem. J., 260:231-235 (1989)
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